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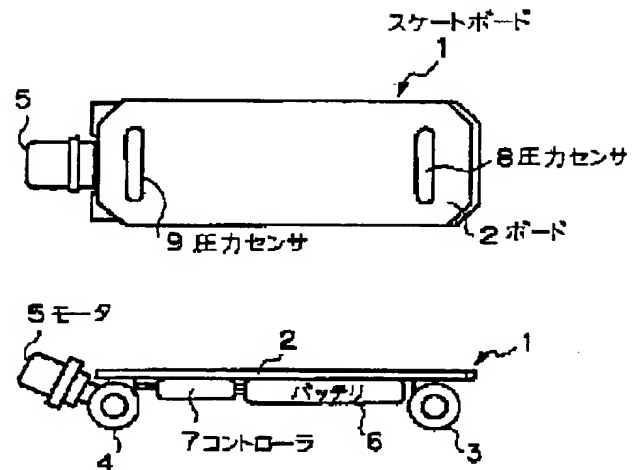
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APPLICANT : YAMAHA MOTOR CO LTD;

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TITLE : MOTOR-DRIVEN MOVING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To control the acceleration and speed and perform operation, such as forward/backward movement, direction indication, etc., by the shift of the weight of a rider without using hands for operation by a method, wherein a moving device is moved by the driving control of a motor.

SOLUTION: Two front wheels 3 and two rear wheels 4 are provided on the front pad and rear part of the lower surface of the board 2 of a skateboard 1, respectively. The rear wheels 4 are linked with a motor 5 and driven to rotate by the motor 5. The motor 5 is controlled to be driven by a controller 7 whose power supply is a battery 6. The skateboard 1 is not operated by hands. Instead, when a rider on the board shifts his weight to a front foot side, a driving command signal having a pulse width corresponding to the difference in load between the front foot side and the back foot side, is supplied by a CPU to a driver, and the driving current of the motor 5 is increased, corresponding to the pulse width, and the skateboard is accelerated and moved forward. On the other hand, if the weight is shifted to the back-foot side, the driving current is changed in accordance with a pulse width corresponding to the difference in load between the back-foot side and the front-foot side and the skateboard is decelerated or accelerated and moved backward.

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